

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Fang SUN et al.
Serial No.: 09/603,323
Filed: June 26, 2000
Confirmation No.: 3143

Examiner: NUTTER, Nathan M.
Group Art Unit: 1711

For: **MANUFACTURE OF WEB OF SUPERABSORBENT POLYMER AND FIBER**

Mail Stop AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SIXTH INFORMATION DISCLOSURE STATEMENT

In accordance with 37 C.F.R. § 1.56, counsel wishes to make of record certain items of information for the Examiner's consideration in connection with this application. Inclusion herein of any particular item of information is not to be construed as an admission that same is prior art.

If any fees for this submission are required, the Commissioner is hereby authorized to charge them to Deposit Account No. 502190.

This Information Disclosure Statement is responsive to the Office Action mailed January 18, 2007 wherein the Examiner stated that the information disclosure statement filed 20 January 2006 fails to comply with 37 CFR 1.98(a)(2).

Regarding the Information Disclosure Statement of 7 August 2000, references cited as B19, B20, B22, B23, B24, B26, B27, B30, and B40 were not considered because they are in Japanese with no corresponding Abstract. English abstracts are provided for B19, B20, B22, B23, B24, B26, B27 and B30 as set forth in the present Information Disclosure Statement,

In compliance with 37 CFR 1.98(a)(3)(i), the following are concise explanations of the relevance as understood by the Attorney for the Applicants of each of the publications listed on the attached form not in English:

B1 - JP 01024808 – English language abstract only of this Japanese Patent Publication No. 01024808 discloses reducing residual monomer in hydrophilic high molecular weight polymer such as a superabsorbent polymer in the present invention.

B2 - JP 1178509 – English language abstract only of this Japanese Patent Publication No. 1178509 discloses a water-absorbing resin that is polymerized mildly an aqueous mixture of slurry acrylic acid wherein an alkali metal salt of acrylic acid precipitated in the initial stage of polymerization is dispersed under a reduced pressure wherein the present invention is directed to polymerization of a superabsorbent polymer.

B3 - JP 3045799 – English language abstract only of this Japanese Patent Publication No. 3045799 discloses a pulp fine fiber and filler including a water-swelling cationic polymer wherein the present invention is directed to a wet laid process and product including a superabsorbent polymer.

B4 - JP 3296592 – English language abstract only of this Japanese Patent Publication No. 3296592 discloses a superabsorbent polymer and an aqueous solution containing a specified hydrophilic organic substance wherein the present invention is directed to a wet laid process and product including a superabsorbent polymer.

B5 - JP 6000370– English language abstract only of this Japanese Patent Publication No. 6000370 discloses a water absorber controlled in water absorbing speed wherein the present invention is directed to a wet laid process and product including a superabsorbent polymer.

B6 - JP 6158581 – English language abstract only of this Japanese Patent Publication No. 6158581 discloses a nonwoven fabric for papermaking that includes water-absorbing fibers wherein the present invention is directed to a wet laid process and product including a superabsorbent polymer.

B7 - JP 6263881 – English language abstract only of this Japanese Patent Publication No. 6263881 discloses superabsorbent polymer particles having specified diameter parameters wherein the present invention is directed to a wet laid process and product including a superabsorbent polymer.

B8 - JP 7025935 – English language abstract only of this Japanese Patent Publication No. 7025935 discloses superabsorbent polymer particles having specific properties wherein the present invention is directed to a wet laid process and product including a superabsorbent polymer.

B9 - JP 8092454 – English language abstract only of this Japanese Patent Publication No. 8092454 discloses a hydrophilic polymer powder due to moisture absorption during storage wherein the present invention is directed to a wet laid process and product including a superabsorbent polymer.

B10 - DE 4206857 – English language abstract only of this German Patent Publication No. 4206857 discloses superabsorbent polymer composition wherein the present invention is directed to a wet laid process and product including a superabsorbent polymer.

B11 - DE 19540951A1 – English language abstract only of this German Patent Publication No. 19540951A1 discloses a water absorbing polymer including a foaming agent wherein the present invention is directed to a wet laid process and product including a superabsorbent polymer.

B12 - DE 19619680A1 – English language abstract only of this German Patent Publication No. 19619680A1 discloses a starch based superabsorbent polymers wherein the present invention is directed to a wet laid process and product including a superabsorbent polymer.

B13 - DE 19807500A1 – English language abstract only of this German Patent Publication No. 19807500A1 discloses a surface treatment of water-absorbing polymers wherein the present invention is directed to a wet laid process and product including a superabsorbent polymer.

B14 - DE 19809540A1 – English language abstract only of this German Patent Publication No. 19809540A1 discloses a foaming treatment of water-absorbing polymers wherein the present invention is directed to a wet laid process and product including a superabsorbent polymer.

B15 – DE 19813443A1 – English language abstract only of this German Patent Publication No. 19813443A1 discloses a surface crosslinking treatment of water-absorbing polymers wherein the present invention is directed to a wet laid process and product including a superabsorbent polymer.

B16 - DE 19846413A1 – English language abstract only of this German Patent Publication No. 19846413A1 discloses a water-swellaable hydrophilic polymer including post neutralization wherein the present invention is directed to a wet laid process and product including a superabsorbent polymer.

B17 - EP 0349240A2 This reference is in English and no concise explanation is required.

B18 - WO 94/25521 – English language abstract only of this PCT 94/25521 discloses a matrix structure including a water-swellaable polymer mixed with a polysaccharide polymer wherein the present invention is directed to a wet laid process and product including a superabsorbent polymer.

Respectfully submitted,

/Philip P. McCann/

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File No.: 05003073.005US2

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

| | |
|------------------------|----------------|
| Application Number | 09/603,323 |
| Filing Date | 6/26/2000 |
| First Named Inventor | Fang Sun |
| Art Unit | 1711 |
| Examiner Name | Nutter, Nathan |
| Attorney Docket Number | 5003073.005US2 |

U.S. PATENT DOCUMENTS

| Examiner Initials * | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|------------------------|--------------------------|--|--------------------------------|--|---|
| | | Number - Kind Code ² (if known) | | | |
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FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
|-----------------------|--------------------------|---|-----------------------------------|---|--|----------------|
| | | Country Code ³ - Number ⁴ - Kind Code ⁵ (if known) | | | | |
| | B1 | JP 01024808 | 09/23/1993 | Arakawa Kagaku Kogyo KK | | X |
| | B2 | JP 01178509 | 9/23/03 | Saotome K | | X |
| | B3 | JP 03045799 | 9/28/1993 | Mitsubishi Paper Mills Ltd | | X |
| | B4 | JP 03296592 | 10/6/1993 | Nippon Shokubai Co Ltd | | X |
| | B5 | JP 06000370 | 3/22/1994 | Nippon Shokubai Co Ltd | | X |
| | B6 | JP 06158581 | 06/07/1994 | Kanebo Ltd | | X |
| | B7 | JP 6263881 | 12/12/1994 | Mitsubishi Paper Mills Ltd | | X |
| | B8 | JP 07025935 | 4/12/1995 | Idemitsu Petrochem Co | | X |
| | B9 | JP 08092454 | 6/18/1996 | Sanyo Chem Ind Ltd | | X |

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | | | Application Number | 09/603,323 |
| | | | | Filing Date | 6/26/2000 |
| | | | | First Named Inventor | Fang Sun |
| | | | | Art Unit | 1711 |
| | | | | Examiner Name | Nutter, Nathan |
| | | | | Attorney Docket Number | 5003073.005US2 |
| Sheet | 2 | of | 2 | (Use as many sheets as necessary) | |

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| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|-----------------------|---|--------------------------------|---|---|----------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Petentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| | | Country Code ³ - Number ⁴ - Kind Code ⁵ (if known) | | | | |
| | B10 | DE 4206857 | 9/9/1993 | Stockhausen | | X |
| | B11 | DE 19540951A1 | 5/7/1997 | BASF AG | | X |
| | B12 | DE 19619680A1 | 11/20/1997 | Buna Sow Leuna | | X |
| | B13 | DE 19807500A1 | 7/29/1999 | Clariant GmbH | | X |
| | B14 | DE 19809540A1 | 09/09/1999 | BASF AG | | X |
| | B15 | DE19813443A1 | 10/08/1998 | Stockhausen | | X |
| | B16 | DE 19846413A1 | 04/13/2000 | BASF AG | | X |
| | B17 | EP 0349240A2 | 01/03/1990 | Nippon Shokubai | | X |
| | B18 | WO 94/25521 | 11/10/1994 | Stockhausen | | X |

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| Examiner Signature | | Date Considered | |
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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